



# Supply and control circuit type UZ for ZEM release

## Application

Supply and control circuit type UZ is designed for powering electrohydraulic release type ZEM of mechanical size 500 to 3200 provided with electromagnet, produced by Fabryka Aparatury Elektrycznej EMA-ELFA Sp. z o.o. in Ostrzeszów. The circuit operates on three-phase AC.

After feeding voltage to the supply circuit, voltage of 42 VAC appears on the auxiliary contacts of the contactor causing energizing of the main contacts and feeding of voltage to the release. In release ZEM, the hydraulic pump motor gets started causing advance of the piston and the attached piston rod of the release to the top position, simultaneously voltage of 38 VDC is fed to the electromagnet coil situated in the release, through the rectifier circuit. In top position of the piston, the attached keeper gets drawn by the electromagnet opening contacts of the limit switch located in the release.

This breaks the circuit of the contactor auxiliary contacts, interrupting its main contacts and switching off the release motor.

From now on, piston rod of the release is held in top position exclusively by the electromagnet.

## Operating conditions

The supply and control circuit is adapted for operation in temperate climate zone on land, in open air N/1 according to PN-68/H-04650 in ambient temperature range from -25°C to +40°C.

The circuit possesses casing of protection rating IP66 according to PN-EN 60529:2003.

## Technical data

Type of supply circuit	UZ-230/42	UZ-400/42	UZ-500/42
<b>Input parameters:</b>			
Supply voltage (release motor voltage)	3 x 230 VAC	3 x 400 VAC	3 x 500 VAC
<b>Output parameters:</b>			
Control voltage			42 V AC
Electromagnet supply voltage			38 V DC

# Overall dimensions

